

LINEAR TECHNOLOGY MATERIALS DECLARATION

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(Engineering Calculation)

QFN 3mm X 5mm Exp. Pad

(printed on: 2020-07-11 20:32:30)

TOTAL MASS (g) : 0.162513

| COMPONENT MATERIAL | VENDOR/ INDUSTRY NAMES | CONSTITUENT NAME | CAS NUMBER | CONSTITUENT MASS (g) | CONSTITUENT (PPM) OF MATERIAL | CONSTITUENT (PPM) OF TOTAL PKG. | | |
|--------------------------|----------------------------------|--------------------------------|------------|----------------------|-------------------------------|---------------------------------|----------------|----------------------|
| Active Device | Linear Technology | Silicon (Si) | 7440-21-3 | 0.002244 | 1000000 | 13808.1455078 | | |
| Die Coat | Dow Corning | Silicone | 69430-27-9 | 0.000000 | 0 | 0 | | |
| Lead Frame | Cu | Copper (Cu) | 7440-50-8 | 0.013133 | 975000 | 80812.1015625 | | |
| | | Iron (Fe) | 7439-89-6 | 0.000323 | 24000 | 1987.53601074 | | |
| | | Phosphorus (P) | 7723-14-0 | 0.000004 | 300 | 24.6134490967 | | |
| | | Zinc (Zn) | 7440-66-6 | 0.000009 | 700 | 55.3802642822 | | |
| | | Nickel (Ni) | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Silicon (Si) | 7440-21-3 | 0.000000 | 0 | 0 | | |
| | | Magnesium (Mg) | 7439-95-4 | 0.000000 | 0 | 0 | | |
| | | Tin (Sn) | 7440-31-5 | 0.000000 | 0 | 0 | | |
| Lead Frame Total: | | | | 0.013469 | 1000000 | 82879.640625 | | |
| Plating | PMI | Exter. Plating Pb | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Exter. Plating Sn | 7440-31-5 | 0.000626 | 1000000 | 3850.58154297 | | |
| | | External Plating Total: | | | | 0.000626 | 1000000 | 3850.58154297 |
| | | Inter. Plating Ni | 7440-02-0 | 0.000000 | 0 | 0 | | |
| | | Inter. Plating Ag | 7440-22-4 | 0.000302 | 1000000 | 1858.31542969 | | |
| | | Internal Plating Total: | | | | 0.000302 | 1000000 | 1858.31542969 |
| Die Attach | ELECTRICALLY CONDUCTIVE ADHESIVE | Silver (Ag) | 7440-22-4 | 0.001000 | 750000 | 6153.36230469 | | |
| | | Tin (Sn) | 7440-31-5 | 0.000000 | 0 | 0 | | |
| | | Lead (Pb) | 7439-92-1 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.000000 | 0 | 0 | | |
| | | Indium (In) | 7440-74-6 | 0.000000 | 0 | 0 | | |
| | | Metal Oxide | | 0.000000 | 0 | 0 | | |
| | | Antimony (Sb) | 7440-36-0 | 0.000000 | 0 | 0 | | |
| | | Resin (EP) | | 0.000333 | 250000 | 2049.06958008 | | |
| Die Attach Total: | | | | 0.001333 | 1000000 | 8202.43164062 | | |
| Encapsulation | MULTI-AROMATIC RESIN Br/Sb FREE | Resin (EP) | | 0.018759 | 130000 | 115430.914062 | | |
| | | Bromine (Br) | 40039-93-8 | 0.000000 | 0 | 0 | | |
| | | Silica (SiO2) | 60676-86-0 | 0.124098 | 860000 | 763619.9375 | | |
| | | Antimony Trioxide (Sb2O3) | 1309-64-4 | 0.000000 | 0 | 0 | | |
| | | Metal Hydroxide | | 0.000000 | 0 | 0 | | |
| | | Carbon Black (C) | 1333-86-4 | 0.001443 | 10000 | 8879.30175781 | | |
| | | Encapsulation Total: | | | | 0.144300 | 1000000 | 887930.125 |
| Bond Wire Estimated | AFW/TANAKA/ Kn | Gold (Au) | 7440-57-5 | 0.000239 | 1000000 | 1470.65356445 | | |
| | | | | | TOTAL MASS (g) : | 0.162513 | | |